

Analysis of Strength of Structural Elements 981

Visyashchev, V.S., Engineer. Investigation of the Distribution of Forces and Stresses in a "Fir-tree" Type Attachment of an Aircraft Turbine Blade in the Elastic State of the Material

59

In the described method of analysis of the "fir-tree" type turbine blade attachment, the author assumes that: 1) the blade is under tensile stresses due to centrifugal forces, 2) stresses in the attachment of the root of the blade and the corresponding portions of the disc are distributed along the height in sections, and in the limits of each section the cross-sectional dimensions and the temperatures are averaged, 3) The centrifugal forces distributed in the attachment are replaced by statically equivalent concentrated forces applied at the centroids of the analysed sections, 4) no other stresses need be taken under consideration. There are 3 Soviet references.

Card 4/6

Analysis of Strength of Structural Elements 981

Visyashchev, V.S., Engineer, Strength Analysis of a 'Fir-tree'
Attachment of Aircraft Turbine Blades in Creep Conditions 80

The author states that the strength of the fir-tree type attachment of a turbine blade is basically determined by creep conditions. His analysis is based on the general flow theory of plasticity and creep in the presence of experimental relationships between the intensity of the speed, shear deformation, and the intensity of shearing stresses. There are 4 Soviet references.

Popov, N.P., Engineer. Influence of the Surface Finish on the
Fatigue Strength of Springs 103

The author gives characteristics of springs whose surfaces were treated by shot peening, galvanic zink plating, nitriding, and varnishing, and compares them with untreated springs. There are 2 Soviet references.

Card 5/6

Analysis of Strength of Structural Elements 981

Vydrin, V.N., Candidate of Technical Sciences. On the Theory of Energy in Plastic Deformation in Connection With the Plasticity Equation

111

The author states that the plasticity equation, expressed in terms of the principal stresses and based on the theory of constancy of the potential energy (theory of Mises, Huber, Hencky) is not adequate for solution of problems related to plastic deformations. He finds it expedient to solve the problem of relationship between principal stresses by use of the theory of plastic strain energy, which, according to the author, was formulated by the Soviet scientist, A.F.Golovin. Illustrative example (problem) is presented. There are 6 Soviet references.

Vydrin, V.N., Candidate of Technical Sciences. Connection between Displacements and Stresses in Plastic Deformations

127

The author examines the case of the mathematical theory of plasticity where the connection between stresses and strains in plastic deformations is given in the form of the equality of corresponding coefficients. There are 3 Soviet references

AVAILABLE: Library of Congress
Card 6/6

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1-13-59

67132
SOV/166-59-6-10/11

46(1) 163000

AUTHOR: Kudryavtsev, A.L.

TITLE: On an Approximation Method of Conformal Mapping

PERIODICAL: Izvestiya Akademii nauk Uzbekskoy SSSR, Seriya fiziko-matematicheskikh nauk, 1959, Nr 6, pp 78 - 82 (USSR)

ABSTRACT: The domain G is assumed to lie in the upper half plane, to contain the infinite point and to be bounded from below by a unique curve $y = f(x)$. For the conformal mapping of the domain G to the upper half plane the author recommends to use the function of N.Ye. Zhukovskiy

$$(1) \quad w - a = z - a + \frac{R^2}{z - a}$$

which maps the upper half plane with a semicircular sector around a onto the entire upper half plane. A possibly large semicircle with center on the x-axis is inscribed into the curve $f(x)$, its radius R_1 and center coordinate a_1 are substituted into (1) for R and a. The obtained mapping is the first approximation, whereby the image of $y = f(x)$ has a smaller maximum distance from the x-axis than $y = f(x)$ itself. By repeated application an arbitrarily good approxi-

67132

10

On an Approximation Method of Conformal Mapping SOV/166-59-6-10/11

mation of the lower boundary of the image domain to the
x-axis can be attained. Several examples are given.
M.A. Lavrent'yev, Academician is mentioned in the paper.

There are 4 figures, and 1 Soviet reference.

ASSOCIATION: Sredneaziatskiy politekhnicheskiy institut (Central Asian
Polytechnic Institute)

SUBMITTED: April 9, 1959

Card 2/2

80264

S/040/60/024/02/32/032

14,3400 16,6500

AUTHOR: Kudryavtsev, A. L. (Tashkent)TITLE: On the Possibility of the Application of Electronic Digit
Machines in an Approximative Method for Determining Conformal
MappingsPERIODICAL: Prikladnaya matematika i mehanika, 1960, Vol. 24, No. 2,
pp. 390-392TEXT: There is a method due to M. A. Lavrent'yev and B. V. Shabat (Ref.
1,2) which allows to map conformally an arbitrary domain of the upper
half plane approximatively onto the upper half plane. The method con-
sists in the repeated application of the mapping

$$(1) \quad w - a = z - b + \frac{k^2}{z - \infty}$$

and in the construction of largest semicircles in certain domains. The
essential deficiency of the method are the very extensive calculations.
The author shows that it is possible to program the operations necessary
for the application of the method (principally the construction of 

Date 1/2

80264

S/040/60/024/02/32/032

On the Possibility of the Application of Electronic Digit Machines in
an Approximative Method for Determining Conformal Mappings

maximum semicircles). He gives a schema for the programm.
There are 2 Soviet references.

SUBMITTED: April 27, 1959

X

Card 2/2

KUDRYAVTSEV, A.B.; ERGOCV, A.N.; YEMEL'YANOV, D.P.; KOSHEV, Yu.S.;
SVETLOVA, L.V.

Application of the ultrasonic "UZG-10" generator in the
cleaning of the inner tube valve surface in aqueous media.
Kauch. i rez. 24 no.7:49-51 Jl '65. (MIRA 18:2)

I. Yaroslavskiy shinnyy zavod.

CHAPALA, I.D.; OVCHENKOV, N.M.; KUDRYAVTSEV, A.M.

Removal of hydrogen from helium. Gaz.prom. 5 no.6:48-50
Je '60. (MIRA 13:6)
(Helium) (Hydrogen)

KUDRYAVTSEV, Aleksandr Mikhaylovich; FILIPENKO, Serafim Grigor'yevich;
KORESHKOVA, Z.S., nauchnyy red.; BYKOVA, I.V., red.;
NESMYSLOVA, L.M., tekhn. red.

[Industrial training of operators of coal cutters and cutter-loaders] Proizvodstvennoe obuchenie mashinistov vrubovykh, vrubovo-pogruzochnykh mashin i ugol'nykh kombainov.
Moskva, Proftekhizdat, 1963. 121 p. (MIRA 16:8)
(Coal mining machinery)

L27601-65 EMT(1)/EPA(s)-2/EMT(m)/EWP(v)/EPA(w)-2/SEC(t)/f/EWP(t)/EWP(k)/EWP(b)/
EWA(m)-2 Pz-6/po-4/pab-10/pf-4/pt-10/pi-4 IJP(c) J3/HM/JG/AT

ACCESSION NR: AP5003239

S/0057/65/035/001/0072/0083

AUTHOR: Buchel'nikova, N.S. / Kudryavtsev, A.M. / Salimov, R.A.81
65
BTITLE: Instability and anomalous diffusion in a potassium plasma

SOURCE: Zhurnal tehnicheskoy fiziki, v.38, no.1, 1965, 72-83

TOPIC TAGS: plasma instability, plasma diffusion, plasma diffusion anomaly, plasma ion oscillation, potassium

ABSTRACT: In order to investigate the instability of a nonuniform plasma in a magnetic field when the ion Larmor radius is comparable with the dimensions of the plasma, the electromagnetic oscillations and diffusion of a potassium plasma column were measured. The plasma was formed in a 4 cm diameter, 50 cm long cylindrical chamber by surface ionization of K atoms on a 2 cm diameter hot tungsten spiral. A longitudinal magnetic field up to 1200 Oe was applied and plasmas of density from 10^7 to $5 \times 10^{11} \text{ cm}^{-3}$ were investigated. The plasma column was most dense on the axis of the chamber, and the radius of the column at half-maximum density was ordinarily about 6 mm. Electromagnetic oscillations were observed with a fundamental frequency between 60 and 70 Kc/sec and an intensity exceeding the noise level by a

Card 1/3

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ACCESSION NR: AP5003239

2

factor 100. The second and third harmonics of these oscillations were also observed with somewhat lower intensity. The wavelength was determined by measuring the phase shift between the signals received by two movable probes. The wavelength of the fundamental in the azimuthal direction was found to be equal to the circumference of the plasma column; the wavelength in the longitudinal direction was approximately 20 cm. The frequency and wavelength of these oscillations were independent of the magnetic field strength, but the oscillations disappeared when the magnetic field was increased to such an extent that the ion Larmor radius became considerably smaller than the radius of the plasma column. The diffusion constant of the plasma transversely to the magnetic field was measured by the method of S.G.Alikhanov. The diffusion constant was found to be of the order of $5 \times 10^4 \text{ cm}^2/\text{sec}$; it decreased slowly with increasing magnetic field and plasma density. The experimental data are discussed at some length, and by a process of elimination it is concluded that the observed oscillations represent a new type of plasma instability associated with the large ion Larmor radius and that the anomalous diffusion (which is about an order of magnitude greater than can be accounted for by the classical processes), is due to this new instability. "We express our gratitude to S.S.Moiseyev and R.Z. Sagdeyev for discussing the results." Orig.art.has 7 formulas, 13 figures and 2 tables.

Card 2/3

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827210010-0

L 27601-65

ACCESSION NR: AP5003239

ASSOCIATION: none

SUBMITTED: 13Dec63

ENCL: 00

SUB CODE: MS, IC

NR REF Sov: 010

OTHER: 006

Card 3/3

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827210010-0"

YANOV, G.I., mekhanik; KUDRYAVTSEV, A.N., mekhanik.

Automatic machine for making metal pins. Masl.-zhir.prom. 20
no.1:33-35 '55. (MLRA 8:3)

1. Yevdakovskiy zhirkombinat.
(Metal working machinery)

KUDRYAVTSEV, A.N., inzh.; VALUYEV, A.F., inzh.

Automatic machine for the dynamic balancing of crankshafts with
correction by the milling method. Trakt. i sel'khozmash. no.11:34-
35 N '64. (MIRA 18:1)

1. Nauchno-issledovatel'skiy institut tekhnologii traktornogo i
sel'skokhozyaystvennogo mashinostroyeniya.

L 24688-66 EWT(1)/T JK

ACC NR: AP6015816 (A, N) SOURCE CODE: UR/0346/65/000/009/0006/0007

AUTHOR: Nikitin, I. N. (Chief of veterinary section); Kudryavtsev, A. P. (Director)ORG: [Kudryavtsev] Scientific Research Veterinary Station, Irkutsk Region (NIVS, 31
Irkutskaya oblast)⁶TITLE: Experience in combatting foot-and-mouth disease (in Irkutskaya Oblast)⁶

SOURCE: Veterinaryiya, no. 9, 1965, 6-7

TOPIC TAGS: foot and mouth disease, disease control, commercial animal, vaccine

ABSTRACT: The control of foot-and-mouth disease in Irkutskaya Oblast is organized on the basis of an oblast-wide master plan implemented with the aid of veterinary specialists and the militia. Special brigades headed by veterinary physicians operate in every region of the oblast where outbreaks of this disease are recorded. Immediately after a case of foot-and-mouth disease is reported, the farm concerned is quarantined: the stricken animal may be killed, the premises are disinfected, and the other livestock on the farm are immunized with laminated vaccine.⁶ To prevent the spread of the infection, the manure and litter are either biothermally disinfected, burned or buried. In some cases even after a quarantine of three months a renewed outbreak of the disease has occurred. This has been remedied by tightening and repeating the disinfecting measures and extending these measures to special clothings of the attendants, livestock grooming facilities, motor vehicles and tractors, etc. Now each veterinarian and farm director in the

Card 1/2

L 24688-66

ACC NR: AP6015816

oblast is aware that the eradication of this disease in its primary focus is much easier and less costly than at a later stage. There is currently no foot-and-mouth disease in the oblast, but the danger of the spread of infection from outside into the oblast has not been eliminated, and hence the local veterinarians are on the alert; the population is being warned through radio programs, articles in the local press, and special posters. The local veterinary teams as well as teams of public volunteers are participating in training exercises in the endangered zones (cattle grazing routes). [JPRS]

SUB CODE: 06, 02 / SUBM DATE: none

Carla 2/2 FIN

KUDRYAVTSEV, A. S.; SAVICH, I. A.

Inner-complex compounds of the elements of the titanium subgroup
with salicylal-o-aminophenol. Zhur. VKHO 7 no. 5:591-593 '62.
(MIRA 15:10)

1. Moskovskiy gosudarstvennyy universitet imeni M. V. Lomonosova.

(Organometallic compounds)

KUDRYAVTSEV, A.S.; SAVICH, I.A.

Study of some physicochemical properties of synthesized new inner complex compounds of the divalent cation series as related to the nature of the central atom and the structure of additives.
Part 1: Synthesis of Schiff bases formed by acetylacetone, o-aminobenzaldehyde, 2-hydroxy-1-naphthaldehyde, and dibenzoylmethane with some amines. Vest. Mosk. un. Ser. 2: Khim. 17 no. 2: 57-60 Mr-Ap '62. (MIRA 15:4)

1. Kafedra neorganicheskoy khimii Moskovskogo universiteta.
(Schiff bases)

KUDRYAVTSEV, A.S.; SAVICH, I.A.; NIKOLAYEV, L.A.

Catalytic activity of complex compounds with Schiff's bases.
Zhur.fiz.khim. 36 no.8:1832-1834 Ag '62. (MIRA 15:8)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, khimi-
cheskiy fakul'tet i Moskovskiy institut inzhenerov transporta.
(Complex compounds) (Schiff bases) (Catalysis)

KUDRYAVTSEV, A.S.; SAVICH, I.A.

Newly synthesized inner-complex compounds of bi- and quadrivalent cations and their physicochemical properties in relation to the character of the central atom and to the structure of addends.
Part 3: Synthesis of inner-complex compounds of bi- and quadrivalent cations with some Schiff bases. Vest.Mosk.un. Ser.2:Khim. 18 no.1:32-34 Ja-F '63. (MIRA 16:5)

1. Kafedra neorganicheskoy khimii Moskovskogo universitata.
(Complex compounds) (Schiff bases)

KUDRYAVTSEV, A.S.; SAVICH, I.A.

Synthesis of Schiff bases and inner-complex compounds. Vest.Mesk. un.
Ser.2: Khim. 18 no.4:61-64 Jl-Ag '63. (MIRA 16:9)

1.Kafedra neorganicheskoy khimii Moskovskogo universiteta.
(Schiff bases) (Complex compounds)

KUDRYAVTSEV, A.G.; SAVICH, I.A.; SYLINA, E.A.; SPITSYN, V.I.

Magnetic susceptibility of some azomethines. Vest.Mosk.un,
Ser.2:Khim. 18 no.6:32-33 N-D '63. (MIRA 17:4)

1. Kafedra neorganicheskoy khimii Moskovskogo universiteta.

KUDRYAVTSEV, A.S.; SAVICH, I.A.

New azomethines. Zhur. ob. khim. 33 no. 4:1351-1354 Ap '63.
(MIRA 16:5)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.
(Schiff bases)

KUDRYAVTSEV, A.S.; BYLINA, E.A.; SAVICH, T.A.; SPITSYN, VIKT.I.

Magnetic susceptibility of some inner-complex compounds.
Vest. Mosk. un. Ser. 2: Khim. 20 no.1:31-32 Ja-F '65.
(MIRA 18:3)
1. Kafedra neorganicheskoy khimii Moskovskogo universiteta.

KUDRYAVTSEV, A.S.; SAVICH, I.A.; BYLINA, N.A.; SPITSYN, Vikt.I., akademik

Magnetic susceptibility of inner-complex compounds of nickel
and copper with Schiff bases. Dokl. AN SSSR 165 no.4:864-867
D 165. (MIRA 18:12)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.

KACHANOVA, Ye.B.; KUDRYAVTSEV, A.S.; LUR'YE, Yu.S., kand. tekhn. nauk,
dots., nauchnyy red.; STAROVAYTOV, I.F., red. izd-va;
VORONETSKAYA, L.V., tekhn. red.

[Cement-production techniques in the United States] Tekhno-
logiya proizvodstva tsementa v SShA. Leningrad, Gos.izd-vo lit-
ry po stroit., arkhit. i stroit. materialam, 1961. 99 p.
(MIRA 15:1)

(United States--Cement industries)

KUDRYAVTSEV, A.S., prof., doktor ekonom. nauk, zasl. deyatel' nauki i tekhniki RSFSR; LYASNIKOV, I.A., dots.; KOSTIN, L.A., dots.; PUNSKIY, Ya.M., prof.; PETROCHENKO, P.F., kand. ekonom. nauk; GUR'YANOV, S.Kh., dots.; KURKIN, N.I., st. prepodavatel'; KOTOV, F.I., dots.; REMIZOV, K.S., kand. ekonom. nauk; POLYAKOV, I.A., starshiy prepodavatel'; BEZRUKOV, B.N., retsen-zent; KOPYLOVA, L.P., red.; ANDREYEVA, L.S., tekhn. red.

[Labor economics in the U.S.S.R.] Ekonomika truda v SSSR. 2., perer. izd. Moskva, Izd-vo VtSPSP Profizdat, 1961. 623 p.
(MIRA 15:2)

(Labor and laboring classes)

KRASHENINNIKOV, M.N.; KUDRYAVTSEV, A.S.

Standard plan developed by the State Institute for the Design
and Planning of Establishments and for Scientific Research in the
Cement Industry. TSegment 27 no.4:3-7and insert Jl-Ag '61.

(MIRA 14:8)

(Cement plants)

SUVOROV, I. K., kand. tekhn. nauk; FOMENKO, Yu. Ye., kand. tekhn. nauk;
KUDRYAVTSEV, A. S., inzh.; PAPCHENKO, V. I., inzh.

Investigating the coefficient of the position resultant
during hot rolling in cylindrical rolls. Sbor. Inst. stali
i splav. no.40:130-137 '62. (MIRA 16:1)

(Rolling(Metalwork))

KUDRYAVTSEV, A.S.

Distribution of impurity elements in the process of hypogenic mineralization in the Chukur-Dzhilga complex metal deposit.
Uzb. geol. zhur. 9 no.1:41-48 '65. (MIRA 18:5)

1. Sredneaziatskiy nauchno-issledovatel'skiy institut geologii i mineral'nogo syr'ya, Tashkent.

KUDRYAVTSEV, A.S.

"Reconstruction of the Load Network in the Area Covered by the Kuybyshev
Hydroelectric Power Station," Iz. Ak. Nauk SSSR, Otdel Tckh. No. 10, 1940,
Submitted 15 Aug 1940.

Report U-1530, 25 Oct 1951

USSR/Engineering
Energy - Conservation
Furnaces, Electric

Jul 48

"Methods for Economizing on Power Consumption in Heat Treatment, Casting and Forging Shops of Machine Construction Factories," N. F. Tikhonov, V. P. Zagorsk, A. S. Kudryavtsev, V. A. Dudinov, Kirov Factory in Urals, 3 pp

"Prom Energet" No 7

Suggestions were awarded a third prize in 1947 All-Union Contest. Describes how capacity of electric furnace was increased, and construction and working routine altered. Diesel cylinder blocks and heads are now cast in chills instead of molds. Mentions various refinements in molding and melting techniques. Refers to forging of caterpillar tracks in two heats instead of three, reducing piston clearances in hammers, and reducing air supply for fans in coke fires.

PA 6/49T27

11(0)

SOV/112-58-3-3672

Translation from: Referativnyy zhurnal. Elektrotehnika, 1958, Nr 3, p 19 (USSR)

AUTHOR: Kudryavtsev, A. S.

TITLE: Effect of a Fuel's Ballast Content on Some Heat-Engineering
Characteristics (Zavisimost' nekotorykh teplotekhnicheskikh kharakteristik
ot soderzhaniya ballasta v toplive)

PERIODICAL: Tr. Vses. zaochn. energ. in-ta, 1957, Nr 8, pp 35-43

ABSTRACT: Bibliographic entry.

Card 1/1

KUDRYAVTSEV, A.S., inzh.

Improvement in a steam superheating control process. Energetik
8 no. 12:13-14 D '60. (MIRA 13:12)
(Electric power plants--Electric equipment)
(Boilers)

KUDRYAVTSEV, A.S., inzh.

Increase in the stability of the KR-III-54 electronic controller.
Energotik 10 no.127-18 Ja '62. (MIRA 14-12)
(Electric power plants--Electronic equipment)
(Electric controllers)

KUDRYAVTSEV, A.S.; SAVICH, I.A.; KUNDO, N.; NIKOLAYEV, L.A.

Catalytic properties of the complex compounds of metals with
Schiff bases. Zhur. fiz. khim. 36 no.6 1382-1384 Je'62
(MIRA 17:?)

1. Moskovskiy institut inzhenerov transporta.

POLUKHIN, P.I.; KUDRYAVTSEV, A.S.; BETS, N.G.

Elastic deformation of rolls on sheet mills. Izv. vys. ucheb.
zav.; chern. met. 6 no.9:110-113 '63. (MIRA 16:11)

1. Moskovskiy institut stali i splavov.

POLUKHIN, P.I.; KUDRYAVTSEV, A.S.; DEGTYARENKO, V.K.; LEONT'YEV, S.A.;
RYABINKOV, V.T.

Investigating temperature conditions in the operation of rolls on
the 2500 MMK rolling mill: Stal' 23 no.9:819-824 S '63.
(MIRA 16:10)

1. Moskovskiy institut stali i splavov i Magnitogorskiy metallurgi-
cheskiy kombinat.

KUDRYAVTSEV, A.S.; SAVICH, I.A.; NIKOLAYEV, L.A.

Catalytic properties of complex compounds with Schiff bases.
Part 2. Zhur. fiz., khim. 37 no.11:2587-2589 N°63.

(MIRA 17:2)

1. Moskovskiy institut inzhenerov transporta.

POLUKHIN, P.I.; KUDRYAVTSEV, A.S.; BETS, N.G.; FARLADANSKIY, A.M.

Effect of chamfers on the elastic deformation of rolls of a
thin sheet mill. Izv. vys. ucheb. zav.; chern. met. 7 no.9;
118-121 '64. (MIRA 17:6)

1. Moskovskiy institut stali i splavov.

REF ID: A6452/ETD/SET(2)/APR(5) 1

TRANSMISSION NR: AP5013324 JC/WA

UR/0148/65/000/005/0085/0089

621.771.23

40

26

AUTHOR: Polukhin, P. I.; Kudryavtsev, A. S.; Bets, N. G.

TITLE: The effect of roll parameters and strip width on the rigidity of the roll system in plate mills. Report 2

SOURCE: IVUZ. Chernaya metallurgiya, no. 5, 1965, 85-89

TOPIC TAGS: rolling mill, sheet metal, elastic deformation

18 16"

ABSTRACT: Variations in cross sectional thickness and profile of a strip during rolling on a four-high mill with cylindrical rolls is determined by the shape of the working rolls. The profile of these rolls is made up of the camber in the axis of the backing-up roll, the nonuniformity in convergence between the axes of the working and backing-up rolls, and nonuniformity in flattening of the upper half of the working roll along the roll body. It was found that the form of the stress-strain diagram for the roll convergence depends on both the width of the strip and the roll parameters (see figs. 1-4 of the Enclosure). The greatest flattening is toward the middle of the roll body, diminishing toward the edges. The mag-

Card 1/7

2-10-10-1

ACCESSION NR: AP5013324

Magnitude of deformations in the axis of the working roll (variations in strip thickness) is determined by the camber of the backing-up roll and by the nonuniformity in flattening, which depend on both strip and roll parameters. The effect which combined elastic deformation in the roll system of a four-high mill has on the variations in cross sectional strip thickness can be reduced only when both the factors pertaining to roll parameters (ratio of working to the backing-up roll diameters, and ratio of width to diameter of the backing-up roll) and the strip width (B/D) are taken into account. The results obtained by the authors from modeling of the elastic interaction for the rolls of various stands may be used for analysis of the effect which the length of the body and the diameters of working and backing-up rolls have on the form and magnitude of combined elastic deformations in the roll system, and for selecting optimum roll parameters in mills which are being planned or are being designed. These results also give a qualitative interpretation of evaluation of effect which elastic deformations in the rolls produced in Soviet and foreign plate mills have on the variation in strip thickness when strips of various widths are rolled. (Fig. 2-11, next 7 figures.)

Card 2-7

ASSOCIATION NR: AP5013324

ASSOCIATION: Moskovskiy institut stali i splavov (Moscow Institute of Steel and
Alloys) ³

SUBMITTED: 26Dec64

ENCL: 04

SITF CODE: MM, IE

NO REF SOCV: 003

OTHER: 000

Card 3/7

B-5271-65

ACCESSION NR: AP5013324

ENCLOSURE: 01

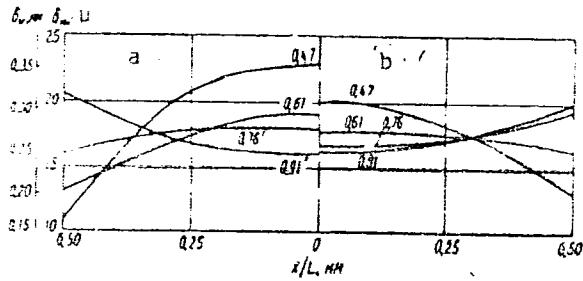


Fig. 1. Stress-strain diagrams for convergence of axes in models of the backing-up and working rolls of a system with $E_{\text{b.u.}} = 1.41$ and for rolls of mill: a-- $L/D_{\text{b.u.}} = 1.419$; $E_{\text{wor.}}/E_{\text{b.u.}} = 1.13$; b-- $L/D_{\text{b.u.}} = 1.41$; $E_{\text{wor.}}/E_{\text{b.u.}} = 0.61$. Figures near the curves refer to the B/L ratio.

Card 4/7

L-377-45
ACCESSION NR: AP5013324

ENCLOSURE: 02

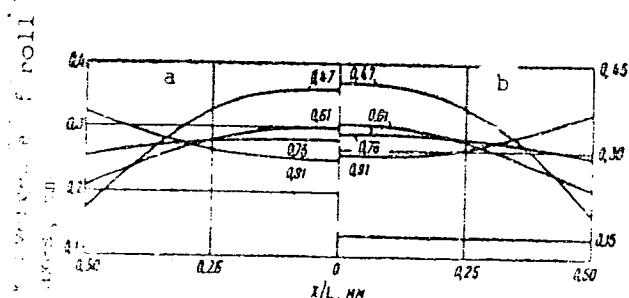


Fig. 2. Stress-strain diagrams for convergence of axes of the working and backing-up rolls in 1680 (a) and 1450 (b) mills. Figures near the curves refer to the β/L ratio.

Card 5/7

ACCESSION NR: AP5013324

ENCLOSURE: 03

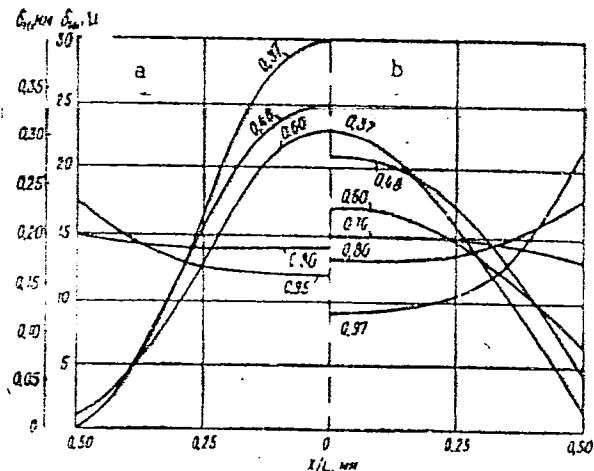


Fig. 3. Stress-strain diagrams for convergence of axes in models of the working and backing-up rolls in a system with $L/D_{b.u.} = 1.79$ and rolls in the stands of a 2500 cold rolling mill and in the finish stands of a 2500 hot rolling mill: a-- $L/D_{b.u.} = 1.79$; $D_{\text{wor.}}/D_{b.u.} = 0.36$; b-- $L/D_{b.u.} = 1.79$; $D_{\text{wor.}}/D_{b.u.} = 0.50$. Figures near the curves refer to the B/L ratio.

Card 6/7

ACCESSION NR: AP5013324

ENCLOSURE: 04 /

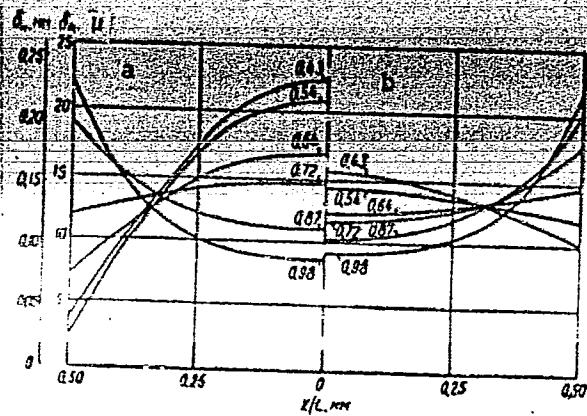


Fig. 4. Stress-strain diagrams for convergence of axes in models of the backing-up and working rolls in a system with $L/D_{b.u.} = 2.00$ and the rolls of various stands in the 2800 mill: a--
 $L/D_{b.u.} = 2.0$; $R_{wor.}/D_{b.u.} = 0.30$;
 b-- $L/D_{b.u.} = 2.0$; $R_{wor.}/D_{b.u.} = 0.64$. Figures near the curves refer to the B/L ratio.

rolling
Card 118

L 2271-66 EWT(m)/EPF(c)/EWP(j)/T RM/DJ
ACCESSION NR: AP5022227 UR/0191/65/000/009/0035/0037
678.84:678.048.9

AUTHOR: Kobzova, R. I.; Levkina, N. K.; Kudryavtsev, A. S.; Savich, I. A.;
Oparina, Ye. M.; Tubanskaya, G. S.

TITLE: Effect of some complex compounds on the stability of polydimethylsiloxanes
to thermal oxidation

SOURCE: Plasticheskiye massy, no. 9, 1965, 35-37

TOPIC TAGS: polydimethylsiloxane, silicone lubricant, antioxidant additive,
chelate compound, Schiff base

ABSTRACT: The effect of certain complex compounds of copper, cobalt, nickel,
lead, and iron with various Schiff bases on the stability of liquid polydimethyl-
siloxane polymer PMS-100 to thermal oxidation was investigated. All the compounds
studied increased the stability of polydimethylsiloxane, the most effective being
N,N'-bis(2-hydroxy-1-naphthylidene)-1,2-diaminoethane, which increased the
stability by a factor of 9. The effectiveness of the complex compounds depends
to a considerable extent on the nature of the metal and choice of the addend.
The effect of metal is displayed most clearly in the case of N-(2-hydroxybenzylidene)-2-aminophenol, which forms a very effective stabilizing compound with
Card 1/2

L 2271-66

ACCESSION NR: AP5022227

copper only; the effect of the addend is most pronounced in the case of complexes containing nickel. It is concluded that the use of chelates as high-temperature antioxidants for silicone oils deserves further investigations. Orig. art. has: 2 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: MT, GC

NO REF SOV: 004

OTHER: 001

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Determination of the constants of acid dissociation (K_a) of Schiff bases. Vest. Mosk. un. Ser. 2; Khim. 20 no.2:47-49 Mr-Ap '65.
(MIRA 18:7)
1. Kafedra neorganicheskoy khimii Moskovskogo universiteta.

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[Roads and the technique of speeding up their use for traffic]. Pod obshchei red.
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DLC: UG 330.K8

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KUDRYAVTSEV, A. S.

"Twenty-Five Years of Soviet Technique," edited by I. P. Bardin, N. G. Bruyevich, A. M. Terpigorev, V. I. Veyts, and A. S. Kudryavtsev, Iz Ak Nauk SSSR, 208 pages, 1945

B-76823

KUDRYAVISEV, A. // S.

Section for Sci. Solution Transportation Problems, Dept. Technical Sci., Acad.Sci.USSR
Candidate Technical Sci.,

Formerly Learned Secretary of the Department.

Has conducted research on classification of railroads.

Publications:

"Fundamental Trends in the Restoration and Development of Transport in the Postwar Period"
(from the Section—see A.V.Komarov, Assoc. Personnel for list coauthors)

"Contemporary Automobile Roads" (from the Section) 70/1945, p 51-52

"Contemporary Automobile Transport and Fundamental Problems of Developing a
Road Network in the USSR" (from the Section) 84/1947, p 177

2/ Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, Moscow, U

6/ 220 Let Akademii Nauk SSSR, Moscow-Leningrad, Izd Akademii Nauk SSSR, 1945, info 1725-1945 U

70/ Referaty Nauchnykh Rabot za 1943 g., Otdeleniye Tekhnicheskikh Nauk, Moscow-Len. U

84/ Referaty Nauchno-Issledovatel'skikh Rabot za 1945 g., Otdeleniye Tekhnicheskikh Nauk,
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SO: SI 77, 1 Feb 56,

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its restoration and development in USSR). (Nauka iz zhizn, 1947, no. 2, p. 19-25,
illus, map).

DLC: Q4.N43

SO: SOVIET Transportation and Communications. A Bibliography. Library of Congress

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"Problems in the Classification of Railways in the Work of A. V. Gorinov,
Corresponding Member of the Academy of Sciences of the USSR," Iz. Ak. Nauk SSSR,
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Technology

Outline history of road construction in the USSR; period to 1917. Moskva,
Dorizdat, 1951.

9. Monthly List of Russian Accessions, Library of Congress, August 19~~53~~/⁵⁴, Uncl.
52

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The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
<u>Kudryavtsev, A.S.</u>	"Notes on the History of Road Construction in the USSR" (prerevolutionary period)	Moscow Automobile Highway Institute imeni V.M. Molotov

SOI: W-RG604, 7 July 1954

KUDRYAVTSEV, A.S.

NEKRASOV, Vladimir Konstantinovich; PETRUSHIN, Aleksandr Konstantinovich;
ARAPOV, S.Ya., redaktor; KUDRYAVTSEV, A.S., professor, redaktor;
KOGAN, F.L., tekhnicheskiy redaktor.

[Ways of reducing costs in road construction] Puti snizhenija
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A.S.Kudriavtseva. Moskva, Nauchno-tekhn.izd-vo avto-transportnoi
lit-ry, 1955. 140 p. (MLRA 9:1)
(Road construction--Estimates and costs)

~~KUDRYAVTSEV, Afanasy Stepanovich, professor; BABKOV, V.F., redaktor;~~
~~MAL'KOVA, N.V., tekhnicheskiy redaktor~~

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after the Revolution)] Ocherki istorii dorozhnogo stroitel'stva
v SSSR (Posleoktiabr'skii period). Moskva, Nauchno-tekhn. izd-vo
avtotransp. lit-ry, 1957. 365 p.
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KUDRYAVTSEV, Afanasiy Stepanovich; SMOLYANSKIY, Ya.B., redaktor;
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KUDRYAVTSOV, A.S.

ZAMAKHAYEV, Mitrofan Semenovich, kand. tekhn. nauk, zasluzhennyy deyatel' nauki i tekhniki RSFSR; KUDRYAVTSOV, Afanasiy Stepanovich, doktor ekon. nauk; MOROZOV, V.I., red.; GALAKTIONOVA, Ye.N. tekhn. red.

[Economic research and designing of road systems] Ekonomicheskie izyskania i proektirovaniye dorozhnykh setei. Moskva, Nauchno-tekhn. izd-vo avtotransp. lit-ry, 1958. 177 p. (MIRA 11:7)
(Roads—Surveying)

A.S. KUDRYAVTSEV
BABKOV, V.F., BELEN'KIY, I.I., BIRULYA, A.K., prof. doktor tekhn. nauk.;
BIRULYA, V.I., DADENKOV, Yu. N., ZAMAKHAYEV, M.S., KAZANSKIY, K.A.,
KROMZOD, L.L., KUDRYAVTSEV, A.S., TERENETSKIY, K.S., MAL'KOVA,
N.V., tekhn. red.

[Handbook for road construction engineers; planning highways]
Spravochnik inzhenera-dorozhnika; proektirovaniye avtomobil'nykh
dorog. Moskva, Nauchno-tekhn. izd-vo avtotransp. lit-ry, 1958. 438 p.
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(Roads)

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Great October Revolution. Trudy MADI no.22:255-258 '58.

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KUDRYAVTSEV, A.S., prof.

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(MIRA 11:12)

(Transportation, Automotive)

KUDRYAVTSEV, Afanasiy Stepanovich, prof.; SOKOLOV, B.M., prof., retsenzent;
MECHEV, S.P., dotsent, retsenzent; IONAS, Boris Yakovlevich, dotsent,
kand.ekonom.nauk, nauchnyy red.; ZUBKOVA, M.S., red.izd-va; DONSKAYA,
G.D., tekhn.red.

[Road construction economics in the U.S.S.R.] Ekonomika dorozhnogo
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nogo transporta i shosseinykh dorog RSFSR, 1959. 243 p.

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(Road construction)

BRONSHTEYN, Lev Abramovich, dotsent, kand.tekhn.nauk; ALEKSANDROV,
L.A., kand.ekon.nauk, retsenzent; USHAKOV, B.P., kand.tekhn.
nauk, retsenzent; KUDRYAVTSEV, A.S., prof., doktor ekon.nauk,
zasluzhennyy deyatel' nauki i tekhniki RSFSR, obshchiy red.;
IOFFE, M.L., red.; MAL'KOVA, N.V., tekhn.red.

[Organization and planning of automotive transportation units]
Organizatsiya i planirovaniye avtovozrotnykh predpriyatiy.
Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo transp. i
shosseinykh dorog RSFSR, 1959. 439 p. (MIRA 13:2)

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Ordzhonikidze (for Ushakov).
(Transportation, Automotive)

KUDRYAVTSEV, Afanasiy Stepanovich, zasluzhennyuy deyatel' nauki i
tekhniki RSFSR; DUBROVSKIY, Yu.N., red.; ATROSHCHENKO, L.Ye.,
tekhn.red.

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Ser.3, Ekonomika, no.27). (MIRA 13:9)
(Russia--Economic policy) (Labor and laboring classes)

POVOROZHENKO, Vladimir Vasil'yevich, prof., doktor tekhn.nauk;
KOSTENKO, Ivan Georgiyevich, kand.tekhn.nauk; MAKHOTKIN,
Nikolay Aleksandrovich, inzh.; RUMYANTSEV, Sergey Mikhay-
lovich, inzh.; PARAKHONSKIY, Boris Mikhaylovich, kand.ekon.
nauk; SOLOV'IEV, Ivan Fomich, kand.tekhn.nauk; BAKAYEV,
V.G., doktor tekhn.nauk, red.; CHERNOMORDIK, G.I., doktor
tekhn.nauk, nauchnyy red.; IRKHIN, A.P., kand.tekhn.nauk,
nauchnyy red.; KUDRYAVTSEV, A.S., doktor ekon.nauk, nauchnyy
red.; GLADTSINOV, B.N., kand.tekhn.nauk, nauchnyy red.;
EYGER', I.Yu., red.; LAVRENOVA, N.B., tekhn.red.

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O.E., tekhn.red.

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Kudryavtsev).
(Karelia--Economic policy)

BEL'SKIY, V.I.; VASIL'YEV, Ye.S.; TOLKACHEV, P.I.; KUDRYAVTSEV, A.V.,
nauchnyy red.; ZVORYKINA, L.N., red.izd-va; MOCHALINA, Z.S.,
tekhn. red.

[Construction of industrial kilns, furnaces and smokestacks of
heat-resistant concrete] Stroitel'stvo promyshlennykh pechei i
trub iz zharostoikogo betona. [By] V.I.Bel'skii, E.S.Vasil'ev,
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(MIRA 16:3)

(Industrial plants--Design and construction)
(Concrete construction)

KOPYRIN, I.A.; OSTROUKHOV, M.Ya.; BYALYY, L.A.; VOZNESENSKY, V.A.; PLASTININ, B.G.;
Prinimali uchastiye: KUDRYAVTSEV, A.V.; CHIRKOV, G.G.; BRADCHENKO, V.P.

Investigation of gas dynamics in the blast furnace process using
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(Blast furnaces) (Gas dynamics) (MIRA 15:10)

KOPYRIN, I. A.; BYALYY, L. A.; OSTROUKHOV, M. Ya.; VOZNESENSKIY, V. A.;
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29-40 '62. (MIRA 16:1)

1. Chelyabinskiy nauchno-issledovatel'skiy institut metallurgii
i Orsko-Khalilovskiy metallurgicheskiy kombinat.

(Blast furnaces—Models) (Gas dynamics)

TUZHILKIN, N.D., otv.za vypusk. Prinimali uchastiye: KHOLIN, N.S.
[deceased]; LEVCHENKO, I.I.; KUDRYAVTSEV, A.T.; TOKAREV, S.N.,
zasluzhennyj uchitel' shkoly RSFSR. SELEZNEV, N.G., red.;
PULIN, L.I., tekhn.red.

[Public education in Tula Province; collection of materials]
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1. Tula. Oblastnoy institut usovershenstvovaniya uchiteley.
2. Direktor Tul'skogo oblastnogo instituta usovershenstvovaniya
uchiteley (for Tuzhilkin). 3. Byvshiy zaveduyushchiy Tul'skim
oblonom(for Kholin). 4. Direktor Yasnopolyanskoy shkoly im. L.N.
Tolstogo (for Levchenko). 5. Direktor 26-y shkoly g.Tuly (for
Kudryavtsev). 6. Zaveduyushchiy uchebnoy chast'yu 1-y shkoly
g.Tuly (for Tokarev).

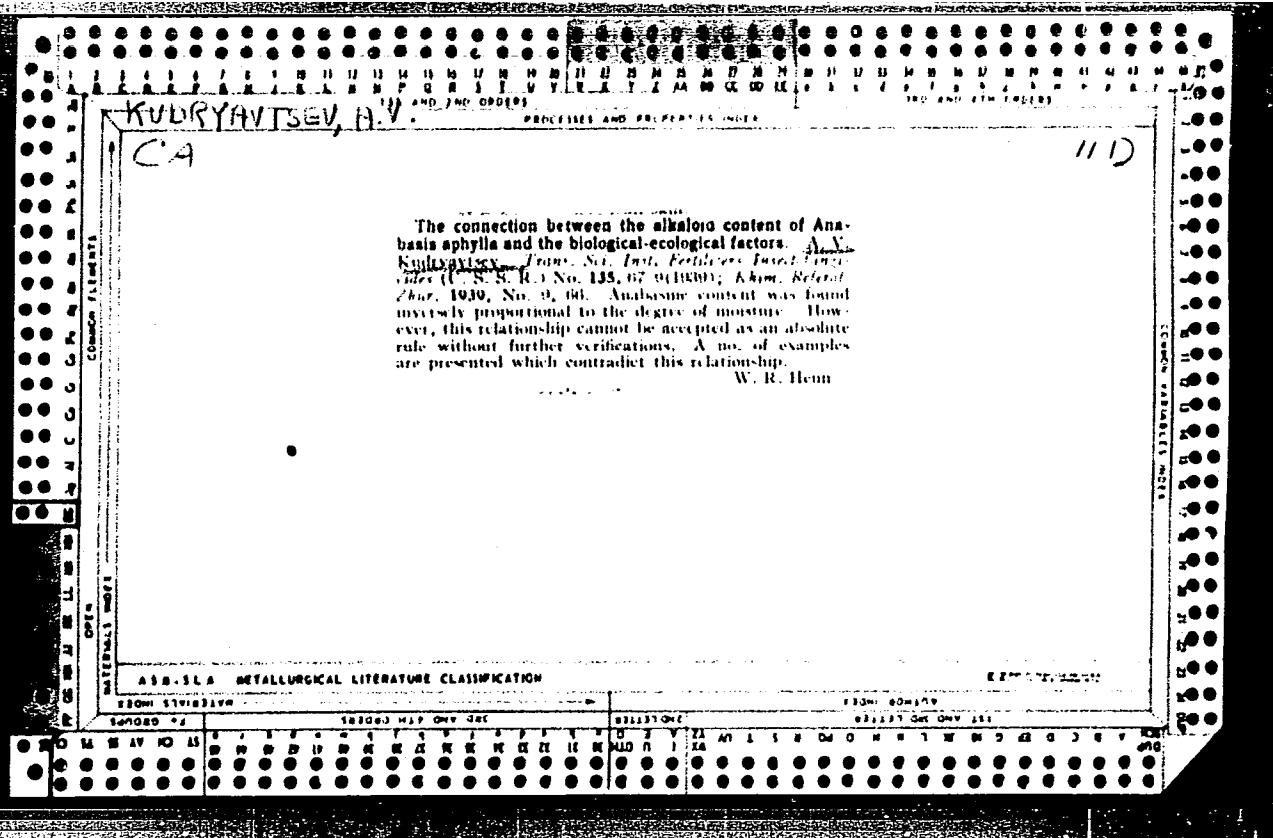
(Tula Province--Education)

KUER NIVIE *

KUDRYAVTSEV,

"Change in the Composition of the Blood of Cattle with Foot-and-Mouth Disease". Tr. GITV, t. 6, 1929. (Bibliography for Article Foot and Mouth Disease by A. L. Skomorokhov, State Publishing House for Agricultural Literature, Moscow/Leningrad 1947.)

SO: [REDACTED] U-1625, 11 January 1952, [REDACTED]



KUDRYAVTSEV, A.V. and PLAVINSKAYA,V.I.

A.V. Kudryavtsev, Veterinary Physician, V.I. Plavinskaya (Vetbakkaboratoriya of the Main Administration of Animal Husbandry State Farms in the Leningrad Zone and Leningrad NIVI), "Comparative Evaluation of Classic Method of Reaction of Agglutination with the Accelerated Method of Colloidal Antigen." (Veterinariya, No.3, Mar 1952, pp 28-31)
SO: U-4863

KUDRYAVTSEV, A. V.

KUDRYAVTSEV, A. V. -- "The Use of the Lamellar Method of the Agglutination Reaction with Colloidal Antigen for Diagnosing Brucellosis in Cattle." Min Higher Education USSR. Leningrad Veterinary Inst. Leningrad, 1955. (Dissertation for the Degree of Candidate in Veterinary Sciences).

So.: Knizhnaya Letopis', No. 6, 1956.

KUDRYAVTSEV, A.V., kand.veter. nauk

Epizootiology of cattle tuberculosis. Veterinariia 39 no.12;
25-27 D '62. (MIRA 16:6)

1. Leningradskaya oblastnaya veterinarnaya laboratoriya.
(Tuberculosis in animals) (Cattle—Diseases and pests)

SEREDA, Naum Stepanovich, kand. tekhn. nauk; KUDRYAVTSEV, A.V.,
red.

[Effective utilization of hornbeam in the national economy]
Rational'noe ispol'zovanie graba v narodnom khoziaistve.
Moskva, Lesnaia promyshlennost', 1965. 88 p.

(MIRA 18:5)

GOYKOLOV, Ye.F.; KANTOROVICH, I.G., inzh.; PETROV, P.V.; RAYTSESS, A.Ya.;
CHERNOV, A.V., inzh.; SHASHKOV, V.F.; SHISHKOV, I.A.; SHMIDT,
Kh.M.; KEYMAKH, L.I., retsenzent; KUDRYAVTSEV, A.V., retsenzent;
V redaktsirovaniy prinimali uchastiy: ZOTOV, A.V.; TELYANER,
D.M.; SHIROKOVA, G.M., red.izd-va; STEPANOVA, E.S., tekhn.red.;
RUDAKOVA, N.I., tekhn.red.

[Handbook for builders of reinforced concrete industrial chimneys
and silos] Spravochnik stroitelia zhelezobetonnykh zavodskikh
trub i silosov. Pod red. A.V.Chernova. Moskva, Gos.izd-vo lit-ry
po stroit., arkhit. i stroit.materiamal, 1959. 300 p.

(Silos) (Chimneys)

(MIRA 13:1)

BEL'SKIY, V.I.; KUDRYAVTSEV, A.V.; GORDEYEV, P.A., red.izd-va;
GOL'BERG, T.M., tekhn. red.

[Transporting materials in large units in connection with
the construction of industrial furnaces] Transportirovanie
materialov v paketakh pri stroitel'stve promyshlennykh pe-
chei. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i
stroit. materialam, 1961. 136 p. {MIRA 15:3)
(Materials handling)

BEL'SKIY, V.I., inzh.; KUDRYAVTSEV, A.V., inzh.

Operational layout for refractory lining of a 2000 m³ blast furnace. Mont. i spets. rab. v stroi, 23 no. 2:21-25 F '61.
(MIRA 14:1)

1. Teploproyekt.

(Blast furnaces) (Refractory materials)

BEL'SKIY, V.I.; KUDRYAVTSEV, A.V.

Transportation of packaged refractories. Ogneupory 27 no.6:249-253
'62. (MIRA 15:5)

1. Institut "Teploproyekt".
(Refractory materials--Transportation)
(Unitized cargo systems)

SANDLER, A.S., kand.tekhn.nauk; SARBATOV, R.S., inzh.; KUDRYAVTSEV, A.V.,
inzh.; ZEL'DIN, V.Sh., inzh.; NIKOL'SKII, A.A., inzh.

Static frequency converters for regulating the speed of asynchronous
motors. Vest. elektroprom. 33 no.3:45-51 Mr '62. (MIRA 15:3)
(Frequency regulation) (Electric motors, Induction)

KLYACHKO, L.A. (Moskva); KUDRYAVTSEV, A.V. (Moskva)

Burning of drops of fuel in a heated air flow. PMTF no. 6;
80-86 N-D '63. (MIRA 17;7)

L 3277-66 EWT(1)/EPA(s)-2

ACCESSION NR: AR5014348

UR/0271/65/000/005/A032/A033

62 - 52:621.314.26

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika. *90*
Svodnyy tom, Abs. 5A222

AUTHOR: Sandler, A. S.; Kudryavtsev, A. V.; Sarbatov, R. S.; *44,55*
Nikol'skiy, A. A.; Zel'din, V. Sh. *44,55*

TITLE: Static frequency changer with thyristors intended for speed regulation of
high-speed induction motors *29,44,55*

CITED SOURCE: Tr. Mosk. energ. in-ta, vyp. 56, 1964, 59-74

TOPIC TAGS: frequency changer, induction motor *44,55*

TRANSLATION: A frequency changer designed with VKDU-20 thyristors consists
of a power controlled rectifier, a 3-phase inverter, and a control system that
comprises a frequency-setting unit, rectifier and inverter control units, a
protection unit, and a supply source. The changer has an output power of 3-kva
and a voltage controllable within 26-130 v at frequencies of 200-1000 cps,

Card 1/2

L 3277-66

ACCESSION NR: AR5014348

respectively. Oscillograms are presented of motor voltages and currents under steady-state conditions and also the oscillograms which illustrate starting, braking, and speed regulation of the motor. Cited advantages of the changer are: the possibility of continuous independent control of frequency and voltage, small weight, and small size. Cited disadvantages are: impossibility of efficient generator-type braking and greater installed capacity of equipment at higher (close to 1000 cps) frequencies. Calculation of transformers and coincidence circuit is indicated. Figs. 12, tabs. 2.

SUB CODE: EE

ENCL: 00

Card 2/2

TIKHOMIROV, Boris Nikolayevich; KUDRYAVTSEV, A.V., red.

[Larch floating] Splav listvennitsy. Moskva, Lesnaia promshlennost', 1965. 156 p. (MIRA 18:6)

LEBEDEV, V.A., inzh. (Sverdlovsk); ZYKIN, B.D., inzh. (Sverdlovsk);
~~KUDRYAVTSEV, A.Y.~~, inzh. (Sverdlovsk); SVYATETSKAYA, E.L., inzh.
(Sverdlovsk); SYROMYATNIKOV, V.N., inzh. (Sverdlovsk)

Conversion of the control system of the AP-25 turbine to hydraulic
operation. Energetik 13 no.10:11-14 0 '65.

(MIRA 18:10)

SOV/46-5-3-31/32

24(1), 24(7)

AUTHOR: Kudryavtsev, B.

TITLE: Professor Lamb's Lectures (News Item). (Lektsii professora Lemba [khronika])

PERIODICAL: Akusticheskiy zhurnal, 1959, Vol 5, Nr 3, pp 386 (USSR)

ABSTRACT: On 6-14 April, 1959, Professor I. Lamb from the Imperial College of Science and Technology (London) delivered four lectures and held a discussion at the Molecular Acoustics Laboratory of the Moscow Regional Pedagogical Institute imeni N.K. Krupskaya. The first lecture dealt with visco-elastic properties of liquids and the use of ultrasonic methods in the study of such properties. In his second lecture, Professor Lamb discussed molecular interpretation of ultrasonic measurements in liquids, especially studies of the equilibrium between the rotational isomers of various unsaturated aldehydes and ketones. The third lecture dealt with ultrasonic methods used in Professor Lamb's laboratory in measurement

Card 1/2

SOV/46-5-3-31/32

Professor Lamb's Lectures (News Item)

of the velocity and absorption of the sound waves in a wide range of frequencies. The fourth lecture was on the subject of propagation of high-frequency stress waves in solids. Professor Lamb held also a discussion during which he described the experience of his laboratory in the use of ultrasonic methods in solution of molecular physics problems.

Card 2/2

Kudryavtsev, B.

4-4-12/22

SUBJECT: CHINA/Ancient Astronomical Clocks

AUTHOR: Kudryavtsev, B., Professor

TITLE: Chinese Astronomical Clocks (Kitayskiye astronomicheskiye chasy)

PERIODICAL: Znaniye - Sila, April 1957, #4, pp 25-27 (USSR)

ABSTRACT: The study of medieval Chinese handwritings has proved that since the 7th century various mechanical models of the rotating firmament were made. Besides this, a special device resembling our clocks with a pendulum, indicated the time. These Chinese clocks were apparently the intermediate link which connects the water-clock of antiquity with the mechanical clock with pendulum invented in the 17th century.

ASSOCIATION: -

PRESENTED BY:-

SUBMITTED: -

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KUDRYAVTSEV, B.A., professor [author]; ROZEN, B.Ya. [reviewer]

Outstanding Russian physicist and chemist ("Vasilii Vladimirovich Petrov.")
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(Petrov, Vasilii Vladimirovich)

